

South Carolina Department of Health and Environmental Control  
Office of Ocean and Coastal Resource Management  
1362 McMillan Avenue, Suite 400  
Charleston, South Carolina 29405

**October 25, 2013**  
**Permit Application Public Notice**

***Charleston County, OCRM-13-286-B***

The Department has received an application for a permit for the alteration of a critical area. The application was submitted pursuant to the Coastal Zone Management Act (Act 123) of 1977 South Carolina General Assembly. The application in brief, is described as follows:

- LOCATION:** On and adjacent to The Cove at Thompson Ave., Sullivans Island, Charleston County, South Carolina. TMS: 523-08-00-087.
- WORK:** The work as proposed consists of making drainage improvements. Specifically, the applicant seeks to improve drainage by reconfiguring the existing drainage route and install a new outfall to the existing "pond". The terminus from the new drainage line (66' of 15" RCP) will result in a 0.004 critical area impact in the 'pond'. The existing drainage structures will be removed. The work as described is for drainage improvements. **PLEASE NOTE:** The Corps of Engineers has issued their Nationwide Permit #3 for this activity.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by the Department can be based. Comments concerning the proposed work must be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

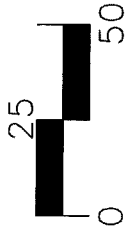
Comments regarding this application must be received by the Department on or before **November 24, 2013**. For more information, please contact:  
**Steve Brooks at 843-953-0235 or via email at [brookss@dhec.sc.gov](mailto:brookss@dhec.sc.gov).**

**NOTE:** Plans depicting the proposed work are available and will be provided upon receipt of a written request or may be viewed on the Department website at **[www.scdhec.gov/environment/ocrm/public\\_notice.htm](http://www.scdhec.gov/environment/ocrm/public_notice.htm)**.

EXISTING



SCALE 1" = 25'



OCRM CRITICAL LINE

TMS\* 523-08-00-083

TMS\* 523-08-00-082

TIDAL MARSH

EXISTING TOP OF POND

EXISTING POND

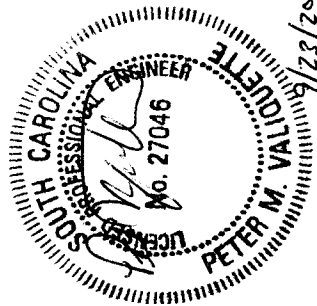
EXISTING DRAINAGE STRUCTURE

EXISTING DRAINAGE LINE (TYP.)

TIDAL MARSH

OCRM CRITICAL LINE  
SECTION 10 WATERS

TMS\* 523-08-00-081



APPLICATION #

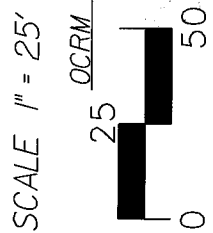
**OCRM-13-280-B**

PROJECT TITLE:  
THOMPSON AVE  
DRAINAGE IMPROVEMENTS

PROJECT LOCATION:  
CHARLESTON COUNTY, SC

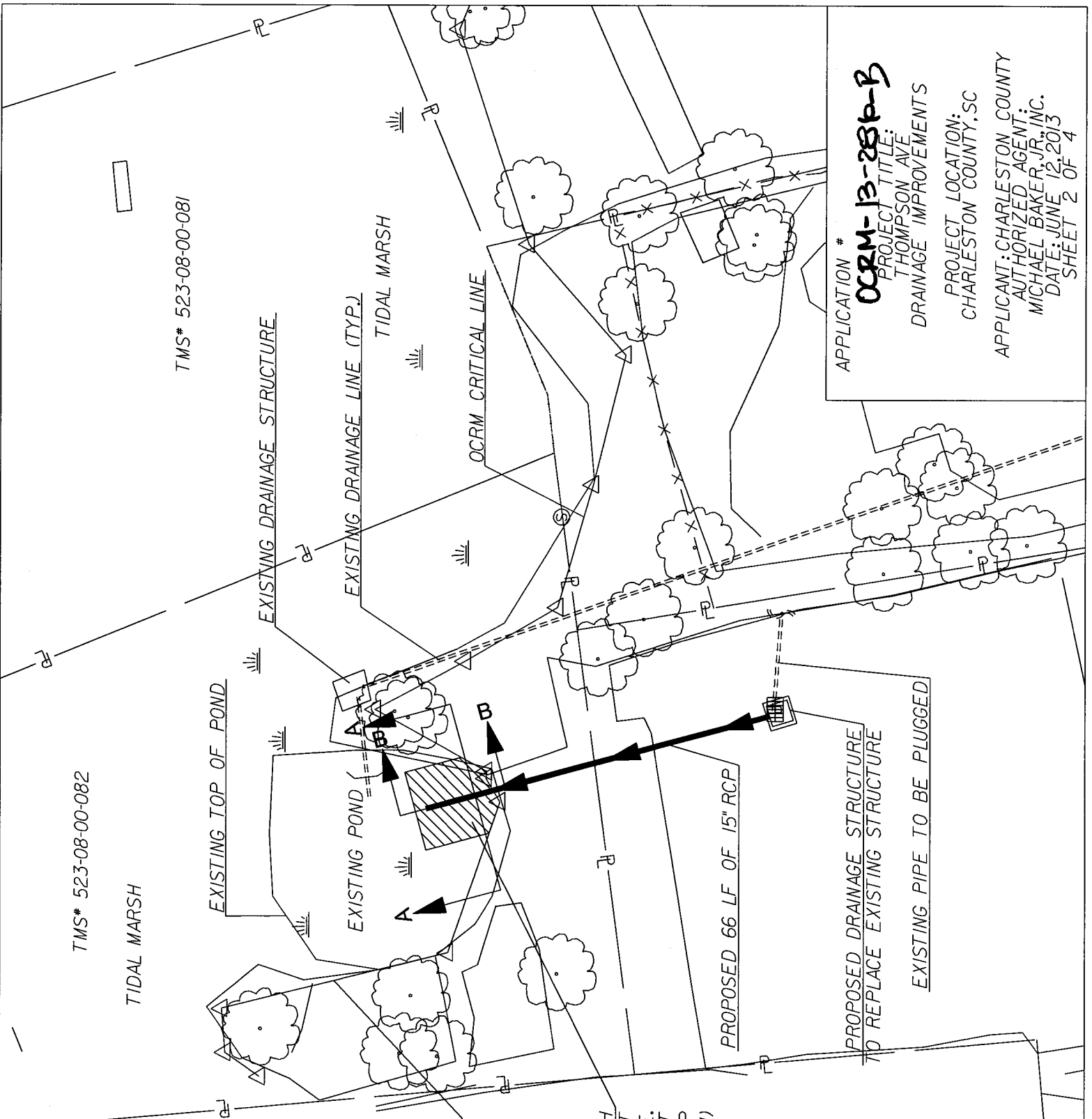
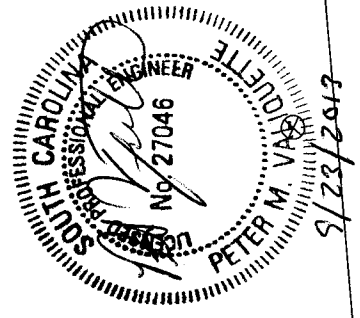
APPLICANT: CHARLESTON COUNTY  
AUTHORIZED AGENT:  
MICHAEL BAKER, JR., INC.  
DATE: JUNE 12, 2013  
SHEET 1 OF 4

PROPOSED



JURISDICTIONAL MARSH  
0.004 ACRES OF EASEMENT  
FOR FUTURE MAINTENANCE.  
0.001 ACRES OF IMPACT  
TO PLACE PROPOSED RCP  
(TEMPORARY EXCAVATION)

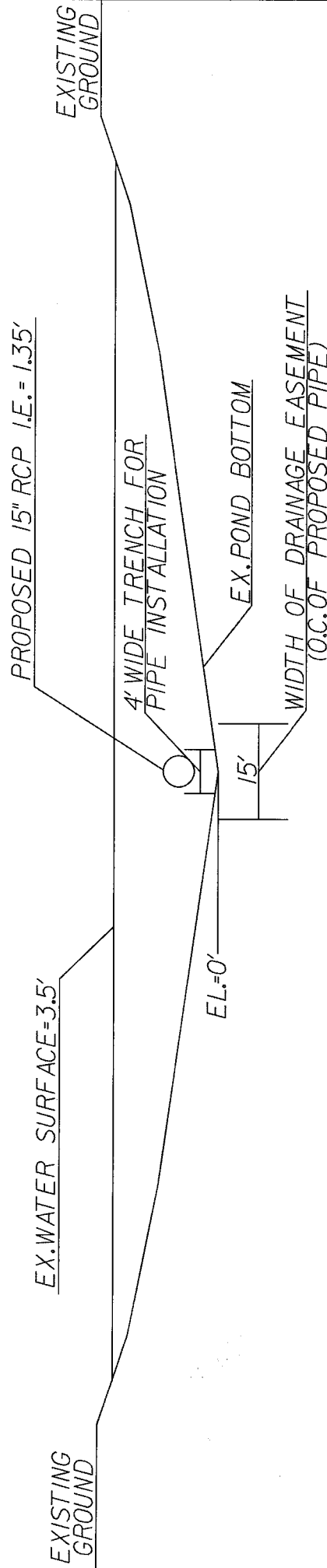
TMS\* 523-08-00-083



APPLICATION # **OCRM-13-286-B**  
PROJECT TITLE:  
THOMPSON AVE  
DRAINAGE IMPROVEMENTS  
PROJECT LOCATION:  
CHARLESTON COUNTY, SC  
APPLICANT: CHARLESTON COUNTY  
AUTHORIZED AGENT:  
MICHAEL BAKER, JR., INC.  
DATE: JUNE 12, 2013  
SHEET 2 OF 4

SECTION  
A-A

EXISTING POND WITH PROPOSED 15" RCP



OCM-13-286-B

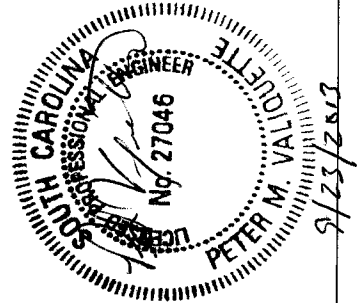
APPLICATION #

PROJECT TITLE:  
THOMPSON AVE  
DRAINAGE IMPROVEMENTS

PROJECT LOCATION:  
CHARLESTON COUNTY, SC

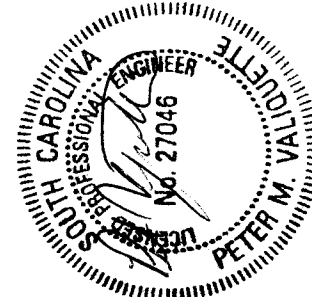
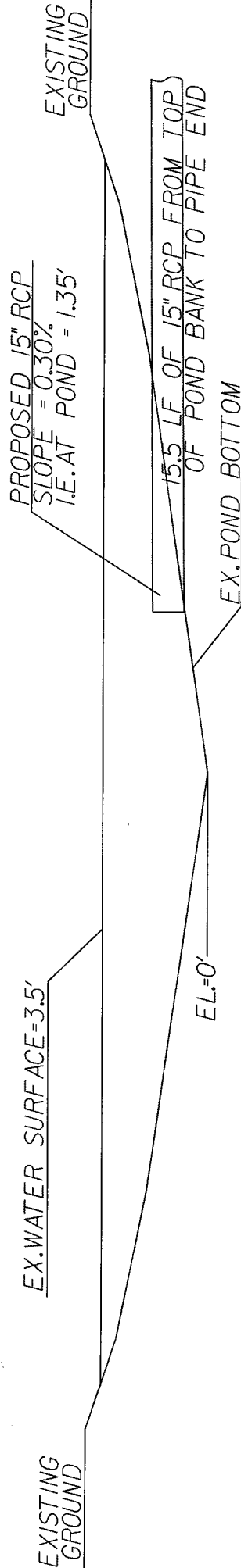
APPLICANT: CHARLESTON COUNTY  
AUTHORIZED AGENT:  
MICHAEL BAKER, JR., INC.  
DATE: JUNE 12, 2013  
SHEET 3 OF 4

NOT TO SCALE



SECTION  
B-B

EXISTING POND WITH PROPOSED 15" RCP



NOT TO SCALE

DCRM-13-280-B

APPLICATION #

PROJECT TITLE:

THOMPSON AVE

DRAINAGE IMPROVEMENTS

PROJECT LOCATION:

CHARLESTON COUNTY, SC

APPLICANT: CHARLESTON COUNTY

AUTHORIZED AGENT:

MICHAEL BAKER, JR., INC.

DATE: JUNE 12, 2013

SHEET 4 OF 4



Legend

 Study Area Boundary



OCPR-13-2810-B

FIGURE 3: COUNTY SOIL SURVEY MAP  
Thompson Avenue Drainage Improvements  
Sullivan Island, Charleston County, South Carolina

02/07/2013

1 inch = 400 feet



**THOMPSON AVENUE DRAINAGE IMPROVEMENTS**  
**PROJECT NARRATIVE**  
**CRITICAL AREA PERMIT**  
**October 4, 2013**

**Introduction**

Charleston County proposes to make drainage improvements to the existing Thompson Avenue on Sullivans Island, South Carolina. The project area includes the existing paved roadways, the jurisdictional storm water ditches adjacent to the roadway, maintained residential areas, and the tidal marsh wetland areas. There is an existing inlet and drainage pipe that discharges to the marsh/pond that is not functioning properly and needs repaired. Site Photographs are included in Appendix B.

**Purpose and Need**

The overall purpose of the proposed project is to provide a safe roadway for pedestrians and motorists using Thompson Avenue and to facilitate stormwater drainage in the general vicinity. The specific purpose of the proposed project is to provide improved stormwater drainage that will alleviate existing flooding of the roadway and adjacent properties. The inlet structure that used to drain the project area (shown on Sheet 2) has been cut off from the drainage system as development has occurred on Sullivans Island, which leads to flooding during rainfall events. The existing roadway and stormwater ditches (non-jurisdictional ditches) flood after rain events and during high tide events, thereby creating an unsafe situation for pedestrians and motorists, and increasing the potential for property damage. Replacing the inlet structure and providing an inline outfall to the existing pond (in the marsh) would alleviate future flooding within the drainage area. An inline outfall is more efficient versus tying back to the existing pipe, because use of the existing outfall would require water to flow at two right angles (approximate) before discharging into the marsh. Correspondence from the Town of Sullivans Island documenting the flooding issue is included in Appendix C.

**Impacts**

- ✓ The proposed project will result in excavation of 0.004-acre of jurisdictional resources (see attached permit drawings) due to the installation/maintenance of stormwater facilities. A new outfall consisting of 66 feet of 15-inch RCP pipe will be placed approximately 20 feet southeast of the existing location to provide inline drainage with the existing inlet structure location.

**Avoidance**

Because jurisdictional resources are located at the outfall that needs to be improved, the total avoidance of impacts to wetlands was not possible. The current configuration of the stormwater facilities is insufficient to drain stormwater after a rain event and causes numerous issues such as, safety concerns for pedestrians/motorists and potential for property damage. The location of jurisdictional resources at the outfall prevents the ability to avoid impacts.

OCRM-13-286-B

**RECEIVED**

OCT 16 2013

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CHARLESTON OFFICE

### **Minimization**

Practicable measures to minimize impacts were utilized during the planning process and the preliminary design phase of the project. Where possible, and where consistent with engineering standards, modifications to the design were made to reduce impacts such as using the minimum amount of excavation required at the outfall to install the pipe.

Efforts to minimize impacts will also be incorporated in the construction phase of the project. Impacts will be confined to within the permitted limits as indicated on the permit drawings to prevent the unnecessary disturbance of adjacent wetland areas. During construction, impacts to adjacent wetlands will be minimized by implementing sediment and erosion control measures to include seeding of slopes and silt fences as appropriate. Other best management practices may be required of the contractor to ensure compliance with the policies of 23 CFR 650B.

### **Mitigation**

Because the proposed project would impact less than 1/10 acre of wetlands in an area of an existing outfall to restore drainage capacity in order to alleviate existing flooding, mitigation is not proposed.

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OCT 16 2013

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